

WORKING TO HELP YOU
SAVE MONEY AND REDUCE YOUR CARBON IMPACT



SunNanO

Modular LED Lighting

The **SunNanO** is a resilient LED luminaire ideal for:

- Feature Lighting
- Small Security Lights
- Floor-Level Lighting
- Shop Window Lighting
- Up-Lighting
- Walkways
- Recessed Lighting

An intelligent, long lasting, bright lighting system that reduces energy consumption, lowers carbon emissions and allows the customer to be in control of light intensity and associated costs. Designed and built with high quality materials to avoid early replacement, unlike many LED fixtures being sold on the market today.

Imagine never having to change a bulb again...



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SunNano Modular LED Lighting



SunNano uses high flux LED's on high quality modular boards and in conjunction with our unique software controlled LED temperature monitoring and control system, this ensures maximum lamp life. It has the ability to set the maximum temperature on the LED's allowing the customer to maximise and control the life of the product. Designed for "fit and forget" (FAF) applications to limit continuous maintenance.

The **SunNano** lighting products are suitable for a wide range of applications. Lights can be powered from renewable power sources such as solar, wind and water.

SunNano has dynamic power control. This enables the unit to automatically modulate light output in response to ambient light levels (with potential additional energy savings). Using a PIR enables dimming of the light during periods of low traffic. This can be programmed to send light activation to a single light or whole group of lights for a road, pathway or area.

SunNano products can be manufactured to customer specification in order to provide a spectrum of desired colour rendering (Ra) and colour appearance (K), from warmer white (2,700K) to cool white (6,500K +), this in conjunction with the various optical packages provides a flexible solution.

Customers have typically used the **SunNano** to replace 30-70 Watt luminaires.

Specifications

| | |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Code | SunNano (22W) – SNW(A) SunNano (24W) – SNRGB(A) SunNano (22W) – SNW(D) SunNano (24W) – SNRGB(D) Available in AC Power (A) or DC Power (D) options |
| Supply Voltage | 20 – 28VDC, 90 – 264VAC |
| Power Rating | Programmable range between 1 – 24 Watts Rated 24W, Typical connected load 28W |
| Lumen Level | Average 1,320 Photopic lumens or 2,988 Scotopic lumens |
| Operating Temperature | - 10°C to + 70°C Ambient (- 30°C with ramp set) |
| Circuitry Operating Temperature | LEDs – 150°C Maximum T _j (Junction Temperature) Controller board circuitry – 105°C Maximum Typical operating conditions at full power, T _j = 80°C |
| Humidity | 0 – 99% |
| Ingress Classification | IP66 (IP68 on modules) |
| Body Material | High grade LM20 Cast Aluminium |
| Lens Material | Polycarbonate graded at ISO 178 |
| Lens Light Transmission | Luminous Transmittance 88% |
| Light Cooling | Convection & Software Temperature Controlled |
| Colour Appearance & Rendering | 2,700°K – 10,000°K range (Warm-Natural or Cool White) Typical 5,000°K – 6,500°K offering Ra=75 (CRI=75%) |
| Luminaire Lifetime | Approx. 50,000hrs. When operated at a T _j of below 63/80°C then 50,000 – 100,000 hours to reach 70% of original light output (not to failure) |
| Photocell & Movement Sensor | PV sensor inbuilt providing a variable light output depending on ambient light level. Programmable settings can be used in conjunction with PIR sensor |
| Compliance | CE, RoHS, BS EN 60598-2-3:2003, BS EN 60598-1:2004 |
| Finish | Powder coated finish in matt black or custom colour upon request |
| Dimensions | H 65mm x W 84mm x D 563mm |
| Mounting | Wall or Ceiling mounting options |
| Weight | 950g |
| Production | Made in United Kingdom (Wales) |

Standard Functions & Features

- Fully automatic light-adjusting dusk-to-dawn sensor (the light either increases or decreases brightness automatically – fully programmable).
- LED automatic temperature control (using our innovative PN junction temperature control).
- PIR movement light activation.
- A range of light schedules can be programmed facilitating various power saving modes.
- Remote luminaire alarms and ancillary functions (e.g. road temperature sensing, vibration sensing, intruder detection).
- Additional features include remote power output control, monitoring, LED max/min temperature setting, scheduling on/off times, fault reporting, 100% dimming from any output power, ramping power timer and system diagnostics.
- Colour rendering on our standard package of Ra \geq 75 of standard daylight spectrum.
- Wireless control of the luminaires allow for 100% customisation of lights.

Please contact us for further information or to discuss your specific requirements